

CLAIMS

What is claimed is:

1. A method of preparing solid nanometer medicines, comprising:
 - A. providing a solution with amphiphiles,
 - B. adding medicines into the solution with amphiphiles,
 - C. forming a complex of medicines and amphiphiles, and
 - D. transforming the complex into solid granules by concentration at a low pressure.
2. The method according to claim 1, wherein the amphiphile is selected from hydroxypropyl-beta-cyclodextrin (HP- β -CD), phospholipids or their combination.
3. The method according to claim 1, wherein the solvent dissolving the amphiphile is selected from hydrophilic solvent, water or their combination.
4. The method according to claim 2, wherein the amphiphile is the combination of hydroxypropyl-beta-cyclodextrin (HP- β -CD) and phospholipids at the weight ratio of 1: 0.05~0.3.
5. The method according to claim 1, wherein the amphiphile is dissolved at 30~100°C.
6. The method according to claim 5, wherein the amphiphile is dissolved at 60~75°C.
7. The method according to claim 1, wherein the medicine is at least one of paclitaxel, artemether, dihydroartemisinin, busulfan, nimodipine, nitrendipine, nifedipine, diazepam, cinnarizine, lovastatin and simvastatin.
8. The method according to claim 1, wherein the granule diameter of the

complex of the medicines and amphiphiles is less than 300nm with the amphiphile outside and medicines inside.

9. The method according to any one of claims 1 to 7, wherein the solid granules further comprise stabilizer and surfactant.

10. The method according to claim 9, wherein the surfactant is Polysorbate 80.

11. The method according to claim 10, wherein the stabilizer is selected from Polyvidone K₃₀ (PVP K₃₀) or dextran 40, 70.

12. A solid nanometer medicine according to any one of claim 1 to claim 11.

13. The solid nanometer medicine according to claim 12 is paclitaxel.

14. The solid nanometer medicine according to claim 12 or claim 13, wherein the solid nanometer medicine can be used for intravenous injection, intraperitoneal injection, atomized inhalation and oral administration.

15. An injection prepared with the solid nanometer medicine according to claim 12.

16. The injection according to claim 15, wherein the medicine is paclitaxel.

17. A method of preparing medical complex comprising:

- A. providing a solution with the amphiphiles
- B. adding medicines into the solution with amphiphiles,
- C. forming a complex of medicines and amphiphiles.

18. The method according to claim 17 further comprising transforming the

complex into solid sterile granule by concentration in a low pressure.

19. The preparing method according to claim 17 or 18, wherein the amphiphile is selected from hydroxypropyl-beta-cyclodextrin (HP- β -CD), phospholipids or their combination.

20. The preparing method according to claim 17, wherein the solvent dissolving the amphiphiles is selected from water, hydrophilic solvent or their combination.

21. The preparing method according to claim 17, wherein the medicine is at least one of paclitaxel, artemether, dihydroartemisinin, busulfan, nimodipine, nitrendipine, nifedipine, diazepam, cinnarizine, lovastatin and simvastatin.